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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/864,064	05/23/2001	Dale K. Bell	60130-1113/01MRA0253	1970
26096	7590 03/12/2003			
CARLSON, GASKEY & OLDS, P.C.			EXAMINER	
400 WEST MA SUITE 350			ECHOLS, PERCY W	
BIRMINGHA	M, MI 48009		ART UNIT	PAPER NUMBER
			3726	
			DATE MAILED: 03/12/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		nte	_			
	Application No.	Applicant(s)				
	09/864,064	BELL, DALE K.				
Office Action Summary	Examiner	Art Unit				
	P. W. Echols	3726				
The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address				
Period for Reply	/ IC CET TO EVDIDE 2 MONTH	(S) EDOM				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ti or within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from or cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on	<u></u> .					
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.	•				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) ☐ Claim(s) 1-15 is/are pending in the application						
4a) Of the above claim(s) <u>10-15</u> is/are withdraw						
5) Claim(s) is/are allowed.	ar nom consideration.					
6)⊠ Claim(s) <u>1-9</u> is/are rejected. 7)□ Claim(s) is/are objected to.						
8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ acception						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
		oved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120	n nriarity under 25 U.S.C. \$ 110/	a) (d) or (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bu * See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 	The state of the s					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ry (PTO-413) Paper No(s) Patent Application (PTO-152)				

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Application/Control Number: 09/864,064

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- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art set forth in the specification in view of Tagawa et al (5,056,581).

The prior art set forth at page 1 of the specification teaches that it was known to use fasteners to connect a forged ring gear to a cast differential casing made of steel or ductile iron. Tagawa et al teach forming a ring with forged projections and casting a housing to the ring. It would have been obvious to one of ordinary skill to modify the process of the prior art to substitute the casting of the housing to the ring gear to eliminate the fasteners and to quickly attach the gear to the housing. The limitations to machining the teeth or casing are considered to have been obvious matters of choice and within the skill of the ordinary artisan. It is noted that there is no disclosure of the machining causing any new or unexpected results. The specification teaches at page 5, lines14-15 that it was known to induction harden gear teeth. Official Notice is taken of near-net forging as a process for reducing the need for subsequent machining. It would have been obvious to near net forge the ring gear to reduce machining.

3. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to P. W. Echols whose telephone number is 703-308-1802. The examiner can normally be reached on M-F 8:30-5.



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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Vidovich can be reached on 703-308-1513. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3579 for regular communications and 703-305-3579 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1802.

P. W. Echols Primary Examiner Art Unit 3726

pwe March 8, 2003